

(FILE 'HOME' ENTERED AT 18:28:20 ON 06 DEC 2002)

FILE 'USPATFULL, AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS,
BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CEN, CERAB,
CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, ENCOMPLIT, ENCOMPLIT2,
FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, ..' ENTERED AT 18:30:45 ON
06 DEC 2002

L1 44480 S LYSED AND CELLS
L2 27 S L1 AND PRESSURE CHAMBER

L2 ANSWER 15 OF 27 USPATFULL

ACCESSION NUMBER: 2001:1636 USPATFULL
TITLE: Miniaturized genetic analysis systems and methods
INVENTOR(S): Anderson, Rolfe C., Saratoga, CA, United States
Lipshutz, Robert J., Palo Alto, CA, United States
Rava, Richard P., Redwood City, CA, United States
Fodor, Stephen P. A., Palo Alto, CA, United States
PATENT ASSIGNEE(S): Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6168948 | B1 | 20010102 |
| APPLICATION INFO.: | US 1998-5985 | | 19980112 (9) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1997-992025, filed on 17 Dec 1997, now abandoned Continuation-in-part of Ser. No. US 1996-589027, filed on 19 Jan 1996, now patented, Pat. No. US 5856174 Continuation-in-part of Ser. No. US 1996-671928, filed on 27 Jun 1996, now patented, Pat. No. US 5922591 | | |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 1997-43490P | 19970410 (60) |
| | US 1995-703P | 19950629 (60) |
| | US 1995-859P | 19950705 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | Granted | |
| PRIMARY EXAMINER: | Beisner, William H. | |
| LEGAL REPRESENTATIVE: | Townsend and Townsend and Crew LLP | |
| NUMBER OF CLAIMS: | 6 | |
| EXEMPLARY CLAIM: | 1,3,4 | |
| NUMBER OF DRAWINGS: | 97 Drawing Figure(s); 62 Drawing Page(s) | |
| LINE COUNT: | 4300 | |

AB The present invention provides a miniaturized integrated nucleic acid diagnostic device and system which includes a nucleic acid extraction zone including nucleic acid binding sites.

L2 ANSWER 16 OF 27 USPATFULL

ACCESSION NUMBER: 2000:153488 USPATFULL
TITLE: Filtration processes, kits and devices for isolating plasmids
INVENTOR(S): Koster, Hubert, Concord, MA, United States
Ruppert, Andreas, Linden, Germany, Federal Republic of
PATENT ASSIGNEE(S): Sequenom, Inc., San Diego, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 6146854 | | 20001114 |
| APPLICATION INFO.: | US 1995-521638 | | 19950831 (8) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Mosher, Mary E. | | |
| LEGAL REPRESENTATIVE: | Seidman, Stephanie L.Heller Ehrman White & McAuliffe LLP | | |
| NUMBER OF CLAIMS: | 37 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 5 Drawing Figure(s); 3 Drawing Page(s) | | |
| LINE COUNT: | 1134 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Processes, kits and preferred devices for rapidly isolating large numbers of plasmid DNAs from plasmid containing **cells** and for

performing high throughput DNA sequencing are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 17 OF 27 USPATFULL

ACCESSION NUMBER: 2000:124763 USPATFULL
TITLE: Pressure-enhanced extraction and purification
INVENTOR(S): Laugharn, Jr., James A., Winchester, MA, United States
Hess, Robert A., Cambridge, MA, United States
Tao, Feng, Boston, MA, United States
PATENT ASSIGNEE(S): BBI BioSeq, Inc., Woburn, MA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 6120985 | | 20000919 |
| APPLICATION INFO.: | US 1998-83651 | | 19980522 (9) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1998-16062, filed on 30 Jan 1998 which is a continuation-in-part of Ser. No. US 1997-962280, filed on 31 Oct 1997 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Wilson, James O. | | |
| LEGAL REPRESENTATIVE: | Fish & Richardson P.C. | | |
| NUMBER OF CLAIMS: | 9 | | |
| EXEMPLARY CLAIM: | 1 | | |
| NUMBER OF DRAWINGS: | 17 Drawing Figure(s); 8 Drawing Page(s) | | |
| LINE COUNT: | 2180 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Methods for cell lysis and purification of biological materials, involving subjecting a sample maintained at a subzero temperature to high pressure, are disclosed. Apparatus for practicing the methods are also disclosed. The cell or **cells** that are **lysed** may be in suspension or part of a tissue. They are **lysed** by a method that includes: (i) providing a frozen cell or **cells** under atmospheric pressure; (ii) while maintaining the cell or **cells** at a subzero temperature, exposing the cell or **cells** to an elevated pressure in a **pressure chamber**, the elevated pressure being sufficient to thaw the frozen cell or **cells** at the subzero temperature; (iii) depressurizing the **pressure chamber** to freeze the cell or **cells** at the subzero temperature; and (iv) repeating the exposing and depressurizing steps until the cell or **cells** are **lysed**. This method can lyse a cell or **cells** with or without cell walls; such **cells** include, but are not limited to, bacteria, viruses, fungal **cells** (e.g, yeast **cells**), plant **cells** (e.g, corn leaf tissue), animal **cells**, insect **cells**, and protozoan **cells**.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 18 OF 27 USPATFULL

ACCESSION NUMBER: 2000:114122 USPATFULL
TITLE: Nucleic acid isolation and purification
INVENTOR(S): Laugharn, Jr., James A., Winchester, MA, United States
Hess, Robert A., Cambridge, MA, United States
Tao, Feng, Boston, MA, United States
PATENT ASSIGNEE(S): BBI BioSeq, Inc., West Bridgewater, MA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 6111096 | | 20000829 |
| APPLICATION INFO.: | US 1997-962280 | | 19971031 (8) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wilson, James O.
LEGAL REPRESENTATIVE: Fish & Richardson P.C.
NUMBER OF CLAIMS: 17
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 14 Drawing Figure(s); 6 Drawing Page(s)
LINE COUNT: 1100

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention is based on the discovery that hyperbaric, hydrostatic pressure reversibly alters the partitioning of nucleic acids between certain adsorbed and solvated phases relative to partitioning at ambient pressure. The new methods and devices disclosed herein make use of this discovery for highly selective and efficient, low salt isolation and purification of nucleic acids from a broad range of sample types, including forensic samples, blood and other body fluids, and cultured cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 19 OF 27 USPATFULL

ACCESSION NUMBER: 1999:78596 USPATFULL
TITLE: Integrated nucleic acid diagnostic device
INVENTOR(S): Anderson, Rolfe C., Mountain View, CA, United States
Lipshutz, Robert J., Palo Alto, CA, United States
Rava, Richard P., San Jose, CA, United States
Fodor, Stephen P. A., Palo Alto, CA, United States
PATENT ASSIGNEE(S): Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 5922591 | | 19990713 |
| APPLICATION INFO.: | US 1996-671928 | | 19960627 (8) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1996-589027, filed on 19 Jan 1996, now patented, Pat. No. US 5856174 | | |

| | NUMBER | DATE |
|-----------------------|--------------|---------------|
| PRIORITY INFORMATION: | US 1995-703P | 19950629 (60) |
| | US 1995-859P | 19950703 (60) |

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Beisner, William H.
LEGAL REPRESENTATIVE: Townsend & Townsend & Crew
NUMBER OF CLAIMS: 58
EXEMPLARY CLAIM: 1,52
NUMBER OF DRAWINGS: 29 Drawing Figure(s); 26 Drawing Page(s)
LINE COUNT: 2872

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a miniaturized integrated nucleic acid diagnostic device and system. The device of the invention is generally capable of performing one or more sample acquisition and preparation operations, in combination with one or more sample analysis operations. For example, the device can integrate several or all of the operations involved in sample acquisition and storage, sample preparation and sample analysis, within a single integrated unit. The device is useful in a variety of applications, and most notably, nucleic acid based diagnostic applications and de novo sequencing applications.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 20 OF 27 USPATFULL

ACCESSION NUMBER: 97:114940 USPATFULL

TITLE: Pasteurella multocida toxoid vaccines
 INVENTOR(S): Frantz, Joseph C., Lincoln, NE, United States
 Roberts, David S., Lincoln, NE, United States
 Swearingin, Leroy A., Lincoln, NE, United States
 Kemmy, Richard J., Gretna, NE, United States
 PATENT ASSIGNEE(S): Pfizer Inc., New York, NY, United States (U.S.
 corporation)

| | NUMBER | KIND | DATE |
|--|--|------|--------------------------|
| PATENT INFORMATION: | US 5695769 | | 19971209 |
| | WO 9309809 | | 19930527 |
| APPLICATION INFO.: | US 1994-244052 | | 19940711 (8) |
| | WO 1992-US10008 | | 19921113 |
| | | | 19940711 PCT 371 date |
| | | | 19940711 PCT 102(e) date |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1991-792490, filed on 15 Nov 1991, now abandoned which is a continuation-in-part of Ser. No. US 1990-537454, filed on 13 Jun 1990, now patented, Pat. No. US 5536496 | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Sidberry, Hazel F. | | |
| LEGAL REPRESENTATIVE: | Richardson, Peter C., Ginsburg, Paul H., Koller, Alan L. | | |
| NUMBER OF CLAIMS: | 14 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 1401 | | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | | |
| AB | This invention provides vaccine compositions, methods of producing same and methods for protecting porcine animals against disease associated with infection by toxigenic Pasteurella multocida. The vaccines of this invention contain effective amounts of a P. multocida bacterin with a cell-bound toxoid and, optionally, a P. multocida free toxoid. | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 21 OF 27 USPATFULL

ACCESSION NUMBER: 96:62889 USPATFULL
 TITLE: Pasteurella multocida toxoid vaccines
 INVENTOR(S): Frantz, Joseph C., Lincoln, NE, United States
 Roberts, David S., Lincoln, NE, United States
 Swearingin, Leroy A., Lincoln, NE, United States
 Kemmy, Richard J., Gretna, NE, United States
 PATENT ASSIGNEE(S): Pfizer Inc., New York, NY, United States (U.S.
 corporation)

| | NUMBER | KIND | DATE |
|--|--|------|--------------|
| PATENT INFORMATION: | US 5536496 | | 19960716 |
| APPLICATION INFO.: | US 1995-439714 | | 19950512 (8) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1993-87946, filed on 6 Jul 1993, now abandoned which is a continuation of Ser. No. US 1990-537454, filed on 13 Jun 1990, now abandoned | | |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Sidberry, Hazel F. | | |
| LEGAL REPRESENTATIVE: | Richardson, Peter C., Ginsburg, Paul H., Ling, Lorraine B. | | |
| NUMBER OF CLAIMS: | 6 | | |
| EXEMPLARY CLAIM: | 1 | | |
| LINE COUNT: | 1231 | | |
| CAS INDEXING IS AVAILABLE FOR THIS PATENT. | | | |
| AB | This invention provides vaccine compositions, methods of producing same | | |

and methods for protecting porcine animals against disease associated with infection by toxigenic *Pasteurella multocida*. The vaccines of this invention contain effective amounts of a free, soluble *P. multocida* toxoid and/or a *P. multocida* bacterin with a cell-bound toxoid.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 22 OF 27 USPATFULL

ACCESSION NUMBER: 93:31321 USPATFULL

TITLE: Method and apparatus for introducing biological substances into living **cells**

INVENTOR(S): Sanford, John C., Geneva, NY, United States
DeVit, Michael J., Geneva, NY, United States
Bruner, Ronald F., Sewell, NJ, United States
Johnston, Stephen A., Durham, NC, United States

PATENT ASSIGNEE(S): E. I. Du Pont de Nemours and Company, Wilmington, DE, United States (U.S. corporation).

| | NUMBER | KIND | DATE |
|---------------------|---|------|--------------|
| PATENT INFORMATION: | US 5204253 | | 19930420 |
| APPLICATION INFO.: | US 1990-529989 | | 19900529 (7) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Warden, Robert J. | | |
| ASSISTANT EXAMINER: | Beisner, William H. | | |
| NUMBER OF CLAIMS: | 35 | | |
| EXEMPLARY CLAIM: | 1,22 | | |
| NUMBER OF DRAWINGS: | 21 Drawing Figure(s); 9 Drawing Page(s) | | |
| LINE COUNT: | 1587 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process is described which uses a "cold" gas shock to accelerate microprojectiles wherein particles are presented to the gas shock on a planar surface perpendicular to the plane of expansion of the gas shock wave. Several different apparatus capable of accomplishing this method are described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 23 OF 27 USPATFULL

ACCESSION NUMBER: 92:106917 USPATFULL

TITLE: Methods for purification of platelet-derived growth factor

INVENTOR(S): Thomason, Arlen R., Thousand Oaks, CA, United States
Nicolson, Margery A., Pacific Palisades, CA, United States

PATENT ASSIGNEE(S): Amgen Inc., Thousand Oaks, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|--|------|--------------|
| PATENT INFORMATION: | US 5175255 | | 19921229 |
| APPLICATION INFO.: | US 1987-25344 | | 19870323 (7) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Moezie, F. T. | | |
| LEGAL REPRESENTATIVE: | Abers, Julia E., Odre, Steven M. | | |
| NUMBER OF CLAIMS: | 18 | | |
| EXEMPLARY CLAIM: | 8 | | |
| NUMBER OF DRAWINGS: | 12 Drawing Figure(s); 14 Drawing Page(s) | | |
| LINE COUNT: | 1725 | | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Monoclonal antibodies specific for epitopes found on the B chain of PDGF (including v-sis, c-sis and platelet-derived forms) may be bound to

columns and used for purification of rPDGF B. A solution containing a polypeptide possessing at least part of the structural conformation of rPDGF B is passed over such a column and the rPDGF B is bound to the antibody. The rPDGF B may then be eluted from the column to yield rPDGF B of greater than 95% purity as determined by SDS-PAGE.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 24 OF 27 USPATFULL

ACCESSION NUMBER: 91:17101 USPATFULL

TITLE: Pressure treated autoimmune specific T cell compositions

INVENTOR(S): Cohen, Irun R., Rehovot, Israel
Shinitzky, Meir, Rehovot, Israel

PATENT ASSIGNEE(S): Yeda Research and Development Co. Ltd., Rehovot, Israel
(non-U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 4996194 | | 19910226 |
| APPLICATION INFO.: | US 1986-910876 | | 19860923 (6) |
| RELATED APPLN. INFO.: | Continuation-in-part of Ser. No. US 1984-648802, filed on 7 Sep 1984, now patented, Pat. No. US 4634590 | | |

| | NUMBER | DATE |
|-----------------------|--|----------|
| PRIORITY INFORMATION: | IL 1983-69686 | 19830911 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | Granted | |
| PRIMARY EXAMINER: | Moskowitz, Margaret | |
| ASSISTANT EXAMINER: | Kushan, Jeff | |
| LEGAL REPRESENTATIVE: | Browdy and Neimark | |
| NUMBER OF CLAIMS: | 34 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 3 Drawing Figure(s); 5 Drawing Page(s) | |
| LINE COUNT: | 1095 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Composition for the prevention and treatment of autoimmune diseases are provided which comprise as an active ingredient membrane material shed from autoimmune T lymphocytes, or activated T lymphocytes which are treated by a pressure application and releases process. There is also provided processes for obtaining such active materials and for preparing pharmaceutical compositions containing them.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 25 OF 27 USPATFULL

ACCESSION NUMBER: 90:80143 USPATFULL

TITLE: Photoresponsive electrode for determination of redox potential

INVENTOR(S): Hafeman, Dean, Hillsborough, CA, United States

PATENT ASSIGNEE(S): Molecular Devices Corporation, Palo Alto, CA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|------------------------|------|--------------|
| PATENT INFORMATION: | US 4963815 | | 19901016 |
| APPLICATION INFO.: | US 1987-72168 | | 19870210 (7) |
| DOCUMENT TYPE: | Utility | | |
| FILE SEGMENT: | Granted | | |
| PRIMARY EXAMINER: | Eisenzopf, Reinhard J. | | |
| ASSISTANT EXAMINER: | Mueller, Robert W. | | |
| LEGAL REPRESENTATIVE: | Allegretti & Witcoff | | |
| NUMBER OF CLAIMS: | 38 | | |

EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 16 Drawing Figure(s); 9 Drawing Page(s)
LINE COUNT: 2328

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Devices and methods are provided for determining the presence and amount of an analyte by measuring a redox potential-modulated photoinducing signal from a photoresponsive element. Further devices and methods are provided for determining the presence and amount of an analyte by measuring a redox potential, pH or ion modulated photoinduced signal from a photoresponsive element, where one signal is a constant system and the other signal(s) is a variable system. The constant system signal is used to standardize the variable system signal. Various protocols may be employed where an analyte may be directly or indirectly coupled to a redox couple, a pH or ion system for detection. The latter devices employ a photoresponsive element having a medium contacting surface, which is partially covered with an electronically conducting layer and partially covered with a protective insulative layer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 26 OF 27 USPATFULL

ACCESSION NUMBER: 89:41123 USPATFULL

TITLE: Purified human granyocyte L1 proteins methods for their preparation, monospecific antibodies and test kits

INVENTOR(S): Fagerhol, Magne K., Oslo, Norway
Dale, Inge, Oslo, Norway
Naesgaard, Inger, Oslo, Norway

PATENT ASSIGNEE(S): Ciba-Geigy Corporation, Ardsley, NY, United States
(U.S. corporation)

| | NUMBER | KIND | DATE |
|-----------------------|---|------|--------------|
| PATENT INFORMATION: | US 4833074 | | 19890523 |
| APPLICATION INFO.: | US 1987-117429 | | 19871102 (7) |
| RELATED APPLN. INFO.: | Continuation of Ser. No. US 1984-628061, filed on 5 Jul 1984, now abandoned | | |

| | NUMBER | DATE |
|-----------------------|--|----------|
| PRIORITY INFORMATION: | GB 1983-18754 | 19830711 |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | Granted | |
| PRIMARY EXAMINER: | Warden, Robert J. | |
| ASSISTANT EXAMINER: | Wieder, Stephen C. | |
| LEGAL REPRESENTATIVE: | Feit, Irving N., Villamizar, JoAnn | |
| NUMBER OF CLAIMS: | 15 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 2 Drawing Figure(s); 2 Drawing Page(s) | |
| LINE COUNT: | 712 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns the two pure human granulocyte L1 proteins of pI 6.3 and pI 6.5, and mixtures thereof, methods for their isolation and purification, their use as marker proteins and antigenics, antisera produced against these proteins, methods for producing said antisera, the use of said antisera for the qualitative and quantitative determinatoin of L1 proteins, and test kits comprising said antisera.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 27 OF 27 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:658415 CAPLUS

DOCUMENT NUMBER: 133:234742

TITLE: Pressure-enhanced extraction and purification and cell

INVENTOR(S): lysis
 PATENT ASSIGNEE(S): Laugharn, James A., Jr.; Hess, Robert A.; Tao, Feng
 SOURCE: BBI BioSeq, Inc., USA
 U.S., 27 pp., Cont.-in-part of U.S. Ser. No. 16,062.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 3
 PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE | | | | | | | | | | | | |
|--|------|---|-----------------|----------|----------------|----|----------|---------------|----|----------|---------------|---|----------|-----------------|---|----------|
| US 6120985 | A | 20000919 | US 1998-83651 | 19980522 | | | | | | | | | | | | |
| US 6111096 | A | 20000829 | US 1997-962280 | 19971031 | | | | | | | | | | | | |
| US 6274726 | B1 | 20010814 | US 1998-16062 | 19980130 | | | | | | | | | | | | |
| CA 2307876 | AA | 19990514 | CA 1998-2307876 | 19981030 | | | | | | | | | | | | |
| WO 9922868 | A1 | 19990514 | WO 1998-US23141 | 19981030 | | | | | | | | | | | | |
| W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | | | | | | | | | | | | | | |
| AU 9912936 | A1 | 19990524 | AU 1999-12936 | 19981030 | | | | | | | | | | | | |
| AU 745925 | B2 | 20020411 | | | | | | | | | | | | | | |
| EP 1027160 | A1 | 20000816 | EP 1998-956405 | 19981030 | | | | | | | | | | | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI | | | | | | | | | | | | | | | | |
| JP 2001521818 | T2 | 20011113 | JP 2000-518788 | 19981030 | | | | | | | | | | | | |
| PRIORITY APPLN. INFO.: <table border="0"> <tr> <td>US 1997-962280</td> <td>A2</td> <td>19971031</td> </tr> <tr> <td>US 1998-16062</td> <td>A2</td> <td>19980130</td> </tr> <tr> <td>US 1998-83651</td> <td>A</td> <td>19980522</td> </tr> <tr> <td>WO 1998-US23141</td> <td>W</td> <td>19981030</td> </tr> </table> | | | | | US 1997-962280 | A2 | 19971031 | US 1998-16062 | A2 | 19980130 | US 1998-83651 | A | 19980522 | WO 1998-US23141 | W | 19981030 |
| US 1997-962280 | A2 | 19971031 | | | | | | | | | | | | | | |
| US 1998-16062 | A2 | 19980130 | | | | | | | | | | | | | | |
| US 1998-83651 | A | 19980522 | | | | | | | | | | | | | | |
| WO 1998-US23141 | W | 19981030 | | | | | | | | | | | | | | |
| AB Methods for cell lysis and purifn. of biol. materials, involving subjecting a sample maintained at a subzero temp. to high pressure, are disclosed. App. for practicing the methods are also disclosed. The cell or cells that are lysed may be in suspension or part of a tissue. They are lysed by a method that includes: (i) providing a frozen cell or cells under atm. pressure; (ii) while maintaining the cell or cells at a subzero temp., exposing the cell or cells to an elevated pressure in a pressure chamber , the elevated pressure being sufficient to thaw the frozen cell or cells at the subzero temp.; (iii) depressurizing the pressure chamber to freeze the cell or cells at the subzero temp.; and (iv) repeating the exposing and depressurizing steps until the cell or cells are lysed . This method can lyse a cell or cells with or without cell walls; such cells include, but are not limited to, bacteria, viruses, fungal cells (e.g, yeast cells), plant cells (e.g, corn leaf tissue), animal cells , insect cells , and protozoan cells . Yeast cells were lysed by a five min. pressurization process consisting of cycling the pressure between 1 ATM and 37 kpsi five times at -15.degree.. Genomic DNA, rRNA, and tRNA could be purified. | | | | | | | | | | | | | | | | |
| REFERENCE COUNT: | 5 | THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT | | | | | | | | | | | | | | |